

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended): A method of assigning time slots for ~~controlling transmission power levels of signals~~ in a spread spectrum time division duplex (TDD) communication system, ~~the signals having frames with time slots for providing a communication;~~ the method comprising:

(a) ~~assigning a first communication station transmitting a first signal having a transmission power level in a first time slot~~ to a first communication station;

(b) a second communication station ~~receiving the first communication and measuring a plurality of signal quality parameters of the first communication;~~ (c) determining a slot assignment rank for the first communication station ~~based on by~~ comparing a first combined score generated based on a sum of weighted signal interference, code usage and channel spread values associated with the first communication station to other combined scores associated with other respective communication stations ~~the plurality of signal quality parameters;~~ and

(c) ~~(d)~~ the second communication station assigning a second time slot to the first communication station ~~for subsequent communications~~ based on the slot assignment rank.

Claim 2 (canceled)

3. (currently amended): The method of claim 1 ~~claim 2~~ further comprising:

(d) (e) prioritizing a plurality of wireless transmit/receive units (WTRUs) currently communicating via a communication network; and

(e) (f) assigning each of the said plurality of WTRUs a slot assignment based upon the slot assignment rank.

4. (original): The method of claim 1 wherein the first communication station is a base station (BS) and the second communication station is a wireless transmit/receive unit (WTRU).

5. (original): The method of claim 1 wherein the first communication station is a wireless transmit/receive unit (WTRU) and the second communication station is a base station (BS).

Claim 6-14 (canceled)

15. (currently amended): In a spread spectrum time division duplex (TDD) communication system, a base station (BS) for assigning time slots ~~controlling transmission power levels of signals, the signals having frames with time slots for providing a communication,~~ the base station comprising:

(a) a plurality of multipliers configured to weight signal interference, code usage and channel spread values associated with a first communication station currently assigned to a first time slot;

(b) a summer configured to add the weighted values to generate a first combined score associated with the first communication station;

(c) a slot ranking device configured to determine a slot assignment rank for the first communication station by a comparing the first combined score to other combined scores associated with other respective communication stations; and

(d) a slot prioritizer for assigning a second time slot to the first communication station based on the slot assignment rank

~~means for receiving, in a first time slot, a first communication having a transmit power level;~~

~~(b) means for measuring a plurality of signal quality parameters of the first communication;~~

~~(c) means for assigning a second time slot for transmission of a second communication based on the plurality of signal quality parameters; and~~

~~(d) means for transmitting the second communication in the second time slot.~~

Claims 16 and 17 (canceled)

18. (currently amended): In a spread spectrum time division duplex (TDD) communication system, a wireless transmit/receive unit (WTRU) for assigning time slots ~~controlling transmission power levels of signals, the signals having frames with time slots for providing a communication,~~ the WTRU base station comprising:

(a) a plurality of multipliers configured to weight signal interference, code usage and channel spread values associated with a first communication station currently assigned to a first time slot;

(b) a summer configured to add the weighted values to generate a first combined score associated with the first communication station;

(c) a slot ranking device configured to determine a slot assignment rank for the first communication station by a comparing the first combined score to other combined scores associated with other respective communication stations; and

(d) a slot prioritizer for assigning a second time slot to the first communication station based on the slot assignment rank

~~means for receiving, in a first time slot, a first communication having a transmit power level;~~

~~(b) means for measuring a plurality of signal quality parameters of the first communication;~~

~~(e) means for assigning a second time slot for transmission of a second communication based on the plurality of signal quality parameters; and~~

~~(d) means for transmitting the second communication in the second time slot.~~

Claims 19 and 20 (canceled)

21. (currently amended): An integrated circuit (IC) for assigning time slots ~~controlling transmission power levels of signals~~ in a spread spectrum time division duplex (TDD) communication system, ~~the signals having frames with time slots for providing a communication;~~ the IC comprising:

(a) a plurality of multipliers configured to weight signal interference, code usage and channel spread values associated with a first communication station currently assigned to a first time slot;

(b) a summer configured to add the weighted values to generate a first combined score associated with the first communication station;

(c) a slot ranking device configured to determine a slot assignment rank for the first communication station by a comparing the first combined score to other combined scores associated with other respective communication stations; and

(d) a slot prioritizer for assigning a second time slot to the first communication station based on the slot assignment rank

~~means for receiving, in a first time slot, a first communication having a transmit power level;~~

~~(b) means for measuring a plurality of signal quality parameters of the first communication;~~

~~(e) means for assigning a second time slot for transmission of a second communication based on the plurality of signal quality parameters; and~~

~~(d) means for transmitting the second communication in the second time slot.~~

Claims 22 and 23 (canceled)